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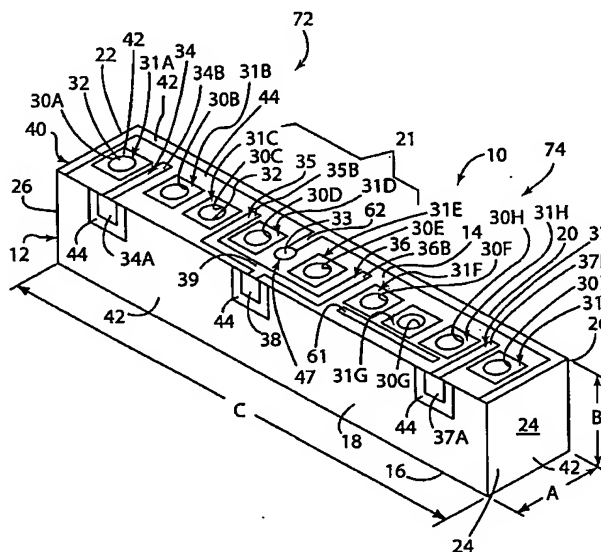
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(54) Title: **LOW PROFILE CERAMIC RF FILTER**



(57) Abstract: A low profile ceramic filter for connection to an antenna, a transmitter and a receiver. The filter filters an incoming signal from the antenna to the receiver and an outgoing signal from the transmitter to the antenna. The filter has a ceramic core with through-holes that extend between sides of the core. The through-holes form coupled resonators and trap resonators. Two trap resonators are located at ends of the block, and two of the trap resonators are located in a central portion of the block. The coupled resonators are located between the end trap resonators and the trap resonators in the central portion. The trap resonators have a resonant frequency that is outside of the desired passband such that trap zeros or poles are provided.

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